

# PATENT ABSTRACTS OF JAPAN

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## (54) ADAPTIVE MODULATION SYSTEM

### (57)Abstract:

**PURPOSE:** To decrease the probability of generation of line interruption by selecting an optimum modulation system according to the reception characteristics showing the quality of line such as code error rate.

**CONSTITUTION:** According to the output of reception quality measuring output of a reception characteristic measuring circuit 16 showing the quality of line such as a code error rate provided at the reception side, a control signal showing an optimum modulation system is given from a control circuit 17 to a modulator 18. A modulation signal according to the control signal given from the modulator 18 is transmitted to a transmission side via a transmitter 19, a diplexer 12, and an antenna 11. A control signal showing the modulation system is given to a decoder and a control circuit 8 via a diplexer 4, a receiver 6 and a demodulator 7. A signal showing the modulation system decoded at the control circuit is given to a multiplexer 1 and a modulator 2, input signals A~D are modulated with the designated modulation system and transmission is made via a transmitter 3, the multiplexer and an antenna 5. Thus, the transmission is made with the modulation system according to the quality of reception, allowing to decrease the probability of line interruption.

